

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Wire/Gas combination**

with trade name

Thermanit 20/16 SM / I1

Manufacturer

**voestalpine Böhler Welding Germany GmbH
Hamm, Germany**

is found to comply with

DNV GL rules for classification – Ships

with this approval

Grade	3954
Current	DC -
Approved diameter	2,0 - 2,4mm
Positions	PA, PB, PF, PC (1G, 1F, 2F, 3Gu, 3Fu, 2F)
Remarks	For Tungsten inert gas welding (TIG) Impact test at +20°C > 70J

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.This Certificate is valid until **2020-12-31**.Issued at **Hamburg** on **2016-07-22**DNV GL local station: **Essen**for **DNV GL**Approval Engineer: **Dietmar Liebich**

Thorsten Lohmann
Head of Section

Any significant change in design or construction may render this Certificate invalid.